

17. The system of claim 16, wherein closing of the first valve and opening of the secondary exhaust causes air drawn from the exhaust to be exhausted through the secondary exhaust.
18. The device of claim 1, wherein the impeller is a set of fan blades substantially spaced equally about the rotor in an arc perpendicular to the first and second axes.
19. The device of claim 1, wherein the impeller is a plurality of sets of fan blades, each set of fan blades substantially spaced equally about the rotor in an arc perpendicular to the first and second axes, the sets positioned from one another along the first and second axes.
20. The device of claim 1, wherein the impeller is a plurality of centrifugal fans.
21. The device of claim 1, wherein the impeller is a squirrel cage fan.
22. A cleaning system comprising an upright vacuum cleaner with the suction device of claim 1 as a means for moving air through the cleaner.